## WHAT IS CLAIMED IS:

A medical apparatus comprising a shaft including a shaft distal end portion and a shaft proximal end portion, and at least one active electrode disposed on the shaft distal end portion, the shaft distal end portion having at least one curve proximal to the at least one active electrode.

The apparatus of claim 1, wherein the at least one curve comprises a first curve and a second curve proximal to the first curve.

3. The apparatus of claim 2, wherein the shaft further includes a proximal end portion, the proximal end portion being essentially linear, and the first curve and the second curve are in the same plane relative to the longitudinal axis of the proximal end portion of the shaft, and the first curve and the second curve are in opposite directions relative to the longitudinal axis of the proximal end portion of the shaft.

A. The apparatus of claim 2, further including an introducer needle having a needle lumen, the needle lumen adapted for passing the shaft distal end portion therethrough, wherein the shaft distal end portion includes a distal linear portion, the active electrode includes an electrode head located terminally at a distal tip of the shaft, the first curve is characterized by a first angle and the second curve is characterized by a second angle, wherein a transverse location of the electrode head within the needle lumen is determined by the first angle and by a length of the distal linear portion.

5. The apparatus of claim 4, wherein the introducer needle includes a needle distal end, and the shaft distal end portion avoids contact with the introducer needle when the shaft distal end portion is advanced from and retracted into the needle distal end.

6. The apparatus of claim 1, wherein the apparatus is adapted for ablating tissue during an electrosurgical procedure, the at least one curve defines a specific curvature of the shaft, the specific curvature is provided during manufacture of the apparatus, and the specific curvature is at least substantially maintained during ablation of the tissue.

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1	\7.	The apparatus of claim 1, wherein the at least one active electrode
2	includes an electrode	head having a spike.
3		
1	8.	The apparatus of claim 7, wherein the electrode head includes an
2	apical spike and a sub	ostantially equatorial cusp.
3		
1	9	The apparatus of claim 1, wherein the at least one active electrode
2	includes a filament ar	nd an electrode head, and the apparatus further comprises a first
3	insulating sleeve enca	asing the filament, and an insulating collar disposed on a distal end
4	of the first insulating	sleeve and adjacent to the electrode head.
5		
1	10.	The apparatus of claim 9, further comprising a cylindrical return
2	electrode on the first	insulating sleeve, the return electrode located proximal to the
3	insulating collar.	
4	¬	
1	11.	The apparatus of claim 10, further comprising a second insulating
2	sleeve encasing a pro	ximal portion of the return electrode.
3		
1	12.	The apparatus of claim 11, further comprising a shaft shield
2	encasing at least a pro-	oximal portion of the second insulating sleeve, wherein the apparatus
3	is adapted for connec	tion to a power supply unit via a connector cable, the connector
4	cable includes an ele	trically conductive cable shield, and the shaft shield is coupled to
5	the cable shield.	
6		
1	13.	The apparatus of claim 9, wherein the insulating collar comprises a
2	material selected from	the group consisting of: a glass, a ceramic, and a silicone.
3		
1	14.	The apparatus of claim 1, further comprising at least one depth
2	marking located at th	e shaft proximal end portion.
3		
1	15.	The apparatus of claim 14, wherein the at least one depth marking
2	comprises a radiopaq	ue material.
3		
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1	\ <sup>16</sup>		The apparatus of claim 1, further comprising a tracking device
2	located at the sha	ft dist	al end portion.
3	/		
1	17	ζ. <sub>-</sub>	A method of making a probe for an electrosurgical apparatus,
2	comprising:		
3	a)	provi	ding a shaft having at least one curve therein, the shaft including at
4	least one active e	lectro	de and at least one return electrode;
5	b)	provi	ding a handle; and
6	c)	affixi	ng the handle to the shaft.
7			
1	18	3. \	The method of claim 17, wherein said step a) comprises:
2	d)	provi	ding an active electrode having a filament and a head, the head
3	attached to a first	end c	of the filament;
4	e)	encas	ing the filament within a first insulating sleeve, the first insulating
5	sleeve having a p	roxim	al end portion and a distal end portion; and
6	f)	encas	ing the proximal end portion of the first insulating sleeve within a
7	return electrode.		
8			
1	19	9. \ \ '	The method of claim 18, wherein said step f) comprises encasing
2	the proximal end	portion	on the first insulating sleeve within a curved return electrode,
3	wherein the shaft	t adop	ts a first curve.
4		1	
1	20	o.	The method of claim 18, wherein said step a) further comprises:
2	g)	prior	to said step f), placing an insulating collar around the distal end
3	portion of the firs	_	
4	<b>r</b> .		
1	21	1. '	he method of claim 18, wherein the return electrode includes a
2			nd a distal end portion, and wherein said step a) further comprises:
3	-		sing the proximal end portion of the return electrode within a
4	ŕ		te, the second insulating sleeve having a proximal end portion and
5	a distal end portion	-	
6	-		ing the proximal end portion of the second insulating sleeve within
7	a shield.	V11043	b and browning and between at the second modulating provide within
8	a sinoid.		
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1	<b>ę</b> 2.	The method of claim 21, further comprising:
2	j <b>∖</b> intro	oducing a second curve in the shaft, wherein the second curve is
3	proximal to the first	curve.
4	. \	
1	23	The method of claim 22, wherein said step j) comprises bending
2	the shaft at a location	proximal to the first curve, wherein the first curve is in a first
3	direction, and the sec	cond curve is in a direction opposite the first direction.
4		
1	24.	The method of claim 23, wherein the handle includes a connection
2	block, and the metho	d further comprises:
3	k) cou	ipling the active electrode and the return electrode to the connection
4	block.	
5		, , , , , , , , , , , , , , , , , , ,
1	25.	The method of claim 18, wherein said step d) comprises:
2	l) pro	viding a filament having a first end and a second end;
3	m) he	ating the filament first end to form a substantially spherical head,
4	wherein the head is	ttached to the filament; and
5	n) for	ming the head to a defined shape and size.
6		
1	26.	The method of claim 18, wherein the at least one active electrode
2	includes a head and	a filament, and the head includes a substantially apical spike and a
3	substantially equator	ial cusp.
4		
1	27.	The method of claim 17, wherein said step a) comprises providing
2	a shaft having a trac	king device located on the shaft distal end or at least one depth
3	marking located on t	he shaft proximal end.
4		
1	28.	The method of claim 17, wherein said step a) comprises providing
2	a shaft having a mec	nanical stop located on the shaft proximal end.
3		
1	29.	An electrosurgical system for treatment of spinal disorders,
2	comprising:	

3	a\pc	ower supply unit adapted for generating a range of selectable high
4	frequency voltages	y,
5	a sh	aft having a proximal end portion and a distal end portion;
6	an a	active electrode disposed on the distal end portion of the shaft; and
7	an e	electrically insulating collar disposed axially between the active
8	electrode and the re	eturn electrode.
9		
1	30.	The apparatus of claim 29, further comprising a return electrode
2	positioned proxima	al of the active electrode, and a connector assembly for coupling the
3	active electrode to	the power supply unit.
4		
1	31	The apparatus of claim 29, wherein the electrically insulating collar
2	comprises at least	one of a ceramic, a silicone, or a glass.
3		
1	32	The apparatus of claim 29 wherein the shaft has an outer diameter
2	no larger than appr	roximately 7 French.
3		
_		
1	33.	The apparatus of claim 29, wherein the distal end portion of the
2	1	curved configuration, wherein the defined curved configuration is
3	retained until appl	ication of an external lateral force to the shaft.
4		
1	34.	The apparatus of claim 33, wherein the external lateral force is
2	11 11 1	the shaft distal end portion within a lumen of an introducer needle,
3	i	ter of the lumen is from about 105% to about 500% of the diameter of
4	the shaft distal end	
5		
1	35.	The apparatus of claim 29, wherein the distal end portion of the
2	shaft is steerable.	
3		

1	<b>3</b> 6.	The apparatus of claim 29, further comprising a return electrode,
2	wherein the return el	ectrode comprises a dispersive pad for attachment to an external skin
3	surface of a patient.	
4		
1	37.	The apparatus of claim 29, further comprising an ancillary device,
2	Ť	device is selected from the group consisting of an endoscope, a
3	return electrode, an a	spiration device, and a fluid supply device.
4		
1	38.	The apparatus of claim 29, wherein the power supply unit
2	comprises a controlle	er that indicates if an electrically conductive fluid is present around
3	the active electrode	
4		
1	39.	The apparatus of claim 29, wherein the shaft has a length in the
2	range of from about	4 cm to about 25 cm, and a diameter in the range of from about 0.5
3	mm to about 2.5 mm	L.
4		
1	40.	The apparatus of claim 29, wherein the shaft has a length in the
2	range of from about	10 cm to about 25 cm, and a diameter in the range of from about 1.0
3	mm to about 2.0 mm	
4		
1	41.	An electrosurgical probe and introducer needle combination for
2	treating an interverte	hral disc, comprising:
3	a prob	e including a shaft, the shaft including a shaft distal end, at least one
4	active electrode, and	at least one return electrode, wherein the shaft distal end includes a
5	first curve and a seco	ond curve proximal to the first curve; and
6	an int	reducer needle having a lumen and a needle distal end, the introducer
7	needle adapted for pa	assing the shaft distal end through the lumen, and for guiding the
8	shaft distal end dista	lly beyond the needle distal end.
9		
1	42.	The combination of claim 41, wherein the shaft further includes a
2	shaft proximal end p	ortion, the proximal end portion being essentially linear, and the first

3	curve and the second curve are in the same plane relative to the longitudinal axis of the
4	proximal end portion of the shaft.
5	
1	43. The combination of claim 42, wherein the first curve and the
2	second curve are in opposite directions relative to the longitudinal axis of the proximal
3	end portion of the shaft.
4	
1	The combination of claim 41, wherein the first curve and the
2	second curve are separated by a substantially linear inter-curve portion.
3	
1	45. The combination of claim 41, wherein the diameter of the lumen is
2	from about 105% to about 500% of the diameter of the shaft distal end.
3	
1	46. The combination of claim 41, wherein the shaft distal end remains
2	substantially centrally located within the lumen when the shaft distal end is passed within
3	the lumen.
4	
1	47. The combination of claim 41, wherein the shaft distal end is
2	located substantially centrally within the lumen when the shaft distal end is retracted into
3	the needle distal end.
4	
1	48. The combination of claim 41, wherein the shaft has a length in the
2	range of from about 10 cm to about 25 cm, and a diameter in the range of from about 0.5
3	mm to about 2.5 mm, and the introducer needle has a length in the range of from about 10
4	cm to about 20 cm, and the lumen has a diameter in the range of from about 1.0 mm to
5	about 3.0 mm.
6	
1	49. The combination of claim 41, wherein the at least one active
2	electrode is disposed at the distal tip of the shaft, the shaft distal end includes a distal
3	linear portion, and a transverse location of the at least one active electrode within the
4	lumen is determined by a length of the distal linear portion.
1	50. The combination of claim 41, wherein the at least one active
2	electrode is disposed at the distal tip of the shaft, the first curve is characterized by a first

3	angle, and the first ar	ngle determines a transverse location of the at least one active	
4	electrode within the lumen.		
1	51 <sub>1</sub>	The combination of claim 42, wherein the second curve causes a	
2	deflection of the shaf	t distal end away from the longitudinal axis of the proximal end	
3	portion of the shaft w	then the second curve is advanced distally beyond the needle distal	
4	end.		
1	52.	The combination of claim 51, wherein the second curve is	
2	characterized by a se	cond angle, the first curve and the second curve are separated by a	
3	substantially linear in	nter-curve portion, and the magnitude of the deflection is determined	
4	by the second angle	and a length of the inter-curve portion.	
1	53.	The combination of claim 41, wherein the shaft includes a	
2	mechanical stop, and	the mechanical stop limits distal movement of the shaft within the	
3	lumen of the introdu	cer needle.	
4			
1	54.	An electrode for an electrosurgical probe, comprising:	
2	a fila	ment having a distal end; and	
3	an ele	ctrode head connected to the filament distal end, wherein the	
4	electrode head inclu	les an apical spike.	
5			
1	55.	The electrode of claim 54, wherein the apical spike provides a high	
2	current density in the	vicinity of the electrode head when a high frequency voltage is	
3	applied to the electro	de.	
4			
1	56.	The electrode of claim 54, wherein the electrode head includes a	
2	cusp.		
3			
1	57.	The electrode of claim 56, wherein the cusp is located substantially	
2	equatorially on the e	lectrode head.	
3			
1	58.	The electrode of claim 54, wherein the electrode head further	
2	includes a substantia	lly equatorial cusp, and the apical spike and the cusp provide high	
3	current density in the	e vicinity of the electrode head when a high frequency voltage is	
4	applied to the electro	ode.	

1		59.	A medical apparatus, comprising: a shaft including a shaft distal
2	tip, a shaft dista	al end p	ortion, and a shaft proximal end portion, the shaft distal end
3	portion having	a first c	curve and a second curve proximal to the first curve, wherein the
4	first curve and	the seco	ond curve are in the same plane relative to the longitudinal axis of
5	the proximal er	nd porti	on of the shaft, and the first curve and the second curve are in
6	opposite direct	ions.	
7	.2	l	
1	5000	<b>6</b> 0.	The medical apparatus of claim 59, further comprising an
2	introducer devi	ice havi	ng a lumen and an introducer distal end, the introducer device
3	adapted for pas	sing the	e shaft distal end portion through the lumen, wherein the shaft distal
4	tip occupies a	ubstant	tially central transverse location within the lumen when the shaft
5		ssed wi	thin the lumen.
1	crasop	61.	The medical apparatus of claim 60, wherein the shaft distal tip
2	occupies a sub	stantiall	ly central transverse location within the lumen when the shaft distal
3	end is advance	d from	and retracted into the introducer distal end.
1		62.	The medical apparatus of claim 60, wherein the shaft distal end
2	portion avoids	contact	with the introducer device when the shaft distal end portion is
3	advanced from	and ret	tracted into the introducer distal end.
4			
1		63.	The medical apparatus of claim 59, wherein the shaft includes a
2	distal linear po	rtion, a	nd a transverse location of the shaft distal tip within the lumen is
3	determined by	an angl	le of the first curve and by a length of the distal linear portion.
1		64.	The medical apparatus of claim 59, wherein the second curve
2	causes a deflec	tion of	the shaft distal tip away from a longitudinal axis of the shaft when
3	the second cur	ve is ad	vanced distally beyond the introducer distal end \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
1		65.	The medical apparatus of claim 59, further comprising an
2	electrosurgical	probe,	wherein the electrosurgical probe includes the shaft.
1		66.	The medical apparatus of claim 59, comprising a medical
2	instrument sel	ected fro	om the group consisting of: a catheter, a cannula, an endoscope, and
3	a hypodermic	needle.	

3 a hypodermic